Brandon CHIN

brandoncjw@hkn.eecs.berkeley.edu | 510-710-5292 | www.linkedin.com/in/brandoncjw25

Berkeley EECS Senior passionate about full stack development and creating dynamic, user-focused applications!

EDUCATION

University of California Berkeley, College of Engineering (GPA: 3.764/4.0) **Graduating May 2025**

B.S Electrical Engineering and Computer Science, Minor in Data Science

Societies: Eta Kappa Nu (IEEE-HKN Honors Society), CS Mentors, Cal Rotaract, Malaysian Student Association

WORK EXPERIENCE

Backlinker.AI, *Full Stack Developer Intern*, San Francisco CA **September 2024 - Present**
- **Increased customer growth by 22% within a month** by implementing key frontend design features such as utility functions and website routes using Typescript, NextJS, and HTML, enhancing user experience and engagement
- Leveraged machine learning, Retool, and Python to implement automated backend pipelines through LLM integrations and workflow automation frameworks, resulting in a **17% increase in workflow productivity**
- Led PostgreSQL database optimization, website enhancements, and seamless pipeline integration, **improving data retrieval times and system scalability**

Enlighten Labs, *Full Stack Developer Intern*, San Francisco CA **September 2024 - Present**
- **Spearheaded frontend development from scratch,** including the landing page, reroutes, and interactive UI components through TypeScript and NextJS, allowing for heightened user engagement
- Engineered secure registration and login functionalities, along with maintaining a scalable database architecture, **driving a 320% increase in monthly concurrent users**

KAIST Interaction Lab, KIXLAB, *Undergraduate Research Intern,* Daejeon Korea **June 2024 - Present**
Incorporating Gricean Maxims into Human-LLM Conversations (Publishing November 2024)
- **Conducted 12 user studies and design workshops** on communication deficiencies in human-LLM interactions
- Trained models tasked for subtask decomposition and characteristics using BERT, TensorFlow, and custom datasets, **operating at a 63% success rate**
- Deployed a React and Flask-based interface with subtask decomposition, characteristic tuning, and output refinement, **improving user efficiency by 27%**

Nexa Speech, *Full Stack Developer Intern*, Berkeley CA **January - May 2024**
- Adapted NeMo Guardrails for LLM protection against vulnerabilities, **decreasing daily security flags by 31%**
- Architected and deployed scalable frontend systems, optimizing folder structures, design components, and API gateways using React Native and JavaScript, **improving application efficiency and maintainability**
- **Directed a team of 3 engineers** to develop and deploy a personalized recommendation system using CNNs, Keras, and TensorFlow, enhancing user engagement through tailored content delivery
- **Introduced app-wide multimodal interaction** through fine-tuning audio generation LLMs using StyleTTS models and custom datasets, increasing user accessibility and interactivity

Maxis Malaysia, *Data Analytics Intern*, Kuala Lumpur Malaysia **May - August 2022**
- Produced weekly dashboards highlighting company analytics, **increasing statistical transparency by 21%**
- Developed automated SQL pipelines to efficiently parse, analyze, and manage large customer datasets, **improving data accuracy and reducing manual processing time by 7%**

TEACHING EXPERIENCE

CS Mentors, *Junior/Associate Mentor*, Berkeley CA **August 2022 - Present**
- Held **LGBTQ+/affinity tutoring sections for 5 students weekly** through minilectures and leading discussions
- Part of the **DEI team** to facilitate URM Computer Science students through external support and resources

UC Berkeley Division of Computing, Data Science and Society, *Tutor,* Berkeley CA **August 2022 - May 2023**
- Held **tutoring sections for 12 students** and office hours for debugging code and answering questions

LANGUAGES, TECHNOLOGY, AND INTERESTS

Languages: Python, Javascript, TypeScript, NextJS, React/React Native, HTML/CSS, Flask
Technology: Git, Jira, Google Cloud Platform, PostgreSQL, IntelliJ, Pandas, PyTorch, Firebase, AWS, Docker, Figma
Interests: AI-driven user experiences and NLP models for enhanced human interaction; Swimming